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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/028,375	12/28/2001	Guy L. Steele JR.	06502.0374-00000	3351

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EXAMINER

MAI, TAN V

ART UNIT PAPER NUMBER

2193

DATE MAILED: 05/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/028,375

Applicant(s)

STEELE, GUY L.

Examiner

Tan V. Mai

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 December 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 11, 12, 14-20, 22, 23, 25-28, 30, 31 and 33 is/are rejected.
- 7) ☒ Claim(s) 9-10, 13, 21, 24, 29 and 32 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 11/4/11/23&12/23/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-2, 4-9, 15-17 and 26-28 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8, 11, 13-14, 17 and 19-20 of copending Application No. 10/035,586. Although the conflicting claims are not identical, they are not patentably distinct from each other because the "**plurality of floating point operands**" [of instant application] is same as the "**first floating point operand and a second floating point operand**" [of Application No. 10/028,375] when "plurality" equals 2.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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3. Claims 1- 8, 11-12, 14-20, 22-23, 25-28, 30-31 and 33 are rejected under 35

U.S.C. 103(a) as being unpatentable over Orup.

Rejection grounds continue to be those set forth in the previous office action (Paper No. dated 9/15/04, paragraph 5).

4. Claims 1- 8, 11-12, 14-20, 22-23, 25-28, 30-31 and 33 are rejected under 35

U.S.C. 103(a) as being unpatentable over Huang et al (Applicant's admission Prior Art).

Rejection grounds continue to be those set forth in the previous office action (Paper No. dated 9/15/04, paragraph 6).

5. Applicant's arguments filed on 12/16/04 have been fully considered but they are not persuasive.

Applicant, in his remarks, argues that:

(1). "[r]egarding Claim 1, the Examiner stated that Orup does not specifically disclose the claimed plurality of analysis circuits...configured to determine a format of each of the floating point operands. (See Office Action, page 3, lines 14-16.) In addition, the Examiner merely states that this missing element would be obvious to a person having ordinary skill in the art. (See Office Action, page 3, lines 20-24.) As a result, Applicant respectfully asserts that the Examiner has failed to make a prima facie case of obviousness. In order to make a prima facie case of obviousness, the Examiner must set forth prior art which teaches or suggests every claim limitation"; and

(2). "[r]egarding Claim 1, the Examiner stated that Huang does not specifically disclose the claimed plurality of analysis circuits...configured to determine a format of each of the floating point operands. (See Office Action, page 5, lines 6-8.) In addition, the Examiner merely states that this missing element would be obvious to a person having ordinary skill in the art. (See Office Action, page 5, lines 6-8). As a result, Applicant respectfully suggest that the Examiner has failed to make a prima facie case of obviousness. In order to make a prima facie case of obviousness, the Examiner must set forth prior art which teach or suggest every claim limitation" (emphasis added).

With respect to the arguments, the examiner carefully reviews all the applied references and the claimed invention.

First, in the previous office action (Paper No. dated 9/15/04, paragraph 5), it is stated "[h]owever, Orup does disclose 'FPU core 94 may use the **tag value** ... Types of special floating point numbers include zero, + infinity, -infinity, and NaNs. By including one bit for each type of special floating point number, FPU core 94 can determine which type of special floating point number the operand represents with minimal decoding' (col. 16, first complete paragraph)" (page 3, lines 16-20). The statement does discuss the equivalent function(s) of "missing element". Therefore, the rejection is still proper.

Second, in the previous office action (Paper No. dated 9/15/04, paragraph 6), it is stated "[h]owever, Huang et al do disclose X and Y operand registers each includes a special operand indicator which is stored a special operand of a predetermine set of special operands. Therefore, the Huang et al's feature is equivalent to the claimed 'plurality of analysis circuits ... configured to **determine a format** of each of the floating point operands...'" (page 5, lines 8-12). The statement does discuss the equivalent function(s) of "missing element". Therefore, the rejection is still proper.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.



Tan V. Mai  
Primary Examiner